

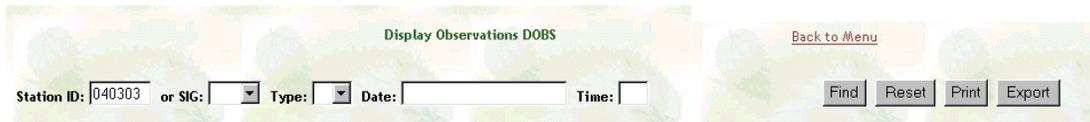
Chapter 5. Beyond the basics

This chapter describes advanced functions available in the WIMS system, including:

- query blocks and query mode
- using wildcards
- capturing data
- recalculating NFDRS indices.

Query blocks and query mode

A query block is a portion of a form that contains a group of related fields used to retrieve records. In the WIMS Web Application System, the query block is the top portion of the form. For example, the top portion of the Display Observations form shows the Station ID, SIG, Type, Date, and Time fields.



The screenshot shows a web form titled "Display Observations DOBS". At the top right, there is a "Back to Menu" link. Below the title, there are five input fields: "Station ID:" with the value "040303", "or SIG:" with a dropdown arrow, "Type:" with a dropdown arrow, "Date:" with an empty text box, and "Time:" with an empty text box. To the right of these fields are four buttons: "Find", "Reset", "Print", and "Export".

In the query form you can enter some or all of the fields in the query block to specify the criteria that WIMS will use to retrieve records. WIMS will retrieve only those records that match all the specified criteria. To initiate the query, you must click find after entering the appropriate search criteria.

Searching by date

Most WIMS Date: fields allow you to locate information by searching for a specific date or by searching using a range of dates. For example:

Format	Description
[blank]	Retrieves records for the last date entered for a single station (no SIGs allowed)
DD-MMM-YY	Retrieves records for the specified date
DD-MMM-YY-DD-MMM-YY	Retrieves records that fall between or are equal to the specified dates <i>You can also use a space to separate the two dates.</i>
>DD-MMM-YY	Retrieves records after the specified date (up to

	1,460 records)
<DD-MMM-YY	Retrieves records before the specified date (up to 1,460 records)

Wildcards

A wildcard query is performed in almost the same manner as a keyword search. The difference is using a special character to tell WIMS to find information that generally fits the specified string of characters:

- % (percent sign) Retrieves records that include the specified string of characters
- (underscore) Retrieves records that match the substring of characters in the specified character position.
- & (ampersand) retrieves stations (List Station form only).

You can use wildcards in any query block.

To initiate a custom query on the List Stations form

example 1

In this example, you will initiate a query to list stations in forecast zone 619.

For field names and definitions on the List Stations form, see Chapter 6, "Working with station information."

From the List Stations form:

- 1 In the *Owner* field, type & (ampersand), then click **Find**. The LSTA Custom Query pop-up window for this example is shown below.

- 2 In the **Criteria** text box type **FCST_ZONE=619** and click **Submit**. The List Stations form shown below displays, listing every station in the forecast zone "619."

List Stations LSTA [Back to Menu](#)

Selection Parameters:

Owner	Station	Nesdis	Station Name	Typ	Obs TM	Agency
&				<input type="checkbox"/>	<input type="checkbox"/>	
<input type="button" value="Find"/> <input type="button" value="Reset"/>						
Owner	Station ID	Nesdis ID	Station Name	Typ	Obs TM	Agency
OPSSFSTRG30	350199	4567899	PYRODONT	4	13	3
OPSSFSTRG52	352915	3245420C	QUAIL2	4	12	1

To initiate a custom query on the List Stations form

example 2

In this next example, you will initiate a query to list all manual NFDRS stations located in the Pacific Standard Time zone for the state of Idaho.

From the LSTA Custom Query pop-up window:

- 1 At the Criteria text box type **FIPS_STATE=16 AND TIME_ZONE='PST' AND STATION_TYPE=2** and click **Submit**. The Query Where pop-up window for this example is shown on the next page.

LSTA Custom Query

Query Where

Criteria:

FIPS_STATE=16 AND TIME_ZONE='PST' AND STATION_TYPE=2

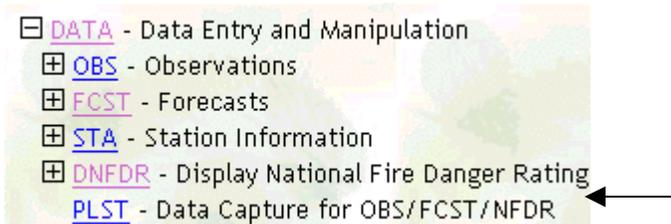
Capturing/Saving query data

WIMS Web Application System data can be saved in two different ways. Any information currently loaded in the browser window can be saved as an HTML file. To save the data currently in your browser select File and then Save As from your browser's tool bar. You will be prompted to choose a destination folder and name the file. Data can also be "captured" from forms that offer the data capture button or from the Data Capture

OBS/FCST/NFDR PLST form.. This form allows you to capture and save data in a simple text format and is described in the following section.

By using the Data Capture for OBS/ FCST/ NFDR form, you can specify search criteria to generate individual reports. The requested data is returned to the browser in a plain text format and you will be prompted to save the report.

To access the DATA CAPTURE FOR OBS/ FCST/ NFDR form



In the FastPath: field, type PLST and click **Go**. The PLST form is returned to your browser.

PLST form

[Back to Menu](#)

Data Capture for OBS/FCST/NFDR

Enter the following information and click on the DataCapture button to complete the Data Capture request. The request will produce and send back one report file to be saved as a local file. The report may contain the following: OBS-LIST, or NFDR-LIST for Observations, or FCST-LIST, or NFDR-LIST for Forecast if there is valid data for your selection.

Station ID:
or SIG:
Type:
Date:

PLST field definitions

Field	Description and action to be taken
Station ID: (station number) - or -	Enter the number of the station for the data you want to capture. - or -
SIG Name: (Special Interest Group name)	Enter the name of the SIG for the data you want to capture.
Type: (observation type)	Enter the type of observation.
Date: (observation date)	Enter the date the observation was recorded.
OBS: (number of observations)	Displays the number of records captured by WIMS for observations.
OBS-NFDR: (number of NFDRS observations)	Displays the number of records captured by WIMS for Observations that contain NFDRS data.
FCST: (number of forecasts)	Displays the number of records captured by WIMS for forecasts.
FCST-NFDR: (number of NFDRS forecasts)	Displays the number of records captured by WIMS for forecasts that contain NFDRS data.

To capture data for an observation

From the DATA CAPTURE FOR OBS/ FCST/ NFDR form:

- 1** In the Station ID field, type the station number of the station for the new observation or in the SIG field, type the Special Interest Group name.
- 2** The observation type is an optional field available from a dropdown on the PLST form. Enter the observation type if you would like to make use of this feature.
- 3** In the Date field, type the date the observation was recorded and submit the query. The results will be returned to your browser and can be saved as an html file.

To capture specific search criteria into a report

Suppose you want to capture an NFDRS Index (DIDX) report for station "052704." You specify a date range from May 01, 2001 to May 15, 2001 and want to capture only regular (Type= O) observations.

- 1** In the Option/ FastPath: field, type DIDX and click Go.
- 2** Complete the desired fields in the query block as shown below, then click Data Capture.

Available forms for capturing or saving data

The following table specifies the WIMS Web Application forms from which data can be captured:

To capture:	Access:	FASTPATH:
Observation data	Display Observation form	DOBS
point forecast data	Display Point Forecast form	DPFCST
trend forecast data	Display Trend Forecast form	DTEFCST
station information	Display/ Edit General Station Information form or the List Stations form.	ESTA or LSTA
default NFDRS parameters	Display/ Edit Default Parameters form	ENFDR
NFDRS parameters		
Index format	Display NFDR (Index) form	DIDX
moisture format	Display NFDR Moisture (Index) form	DIDM
manager's format	Display NFDR (Manager) form	DMGR
short format	Display NFDR (Short) form	DSHR
abbreviated format	Display NFDR (Abbrv) form	DABR
weighted averages	Display NFDRS Weighted Averages	DAVG

Any pertinent WIMS information can be saved at any point in your session by using the Save As option from the File menu on your browser's tool bar.

Recalculating NFDRS indices

You must be owner of the station or authorized on the Access Control List to edit any observation for that station.

If you change field values of an observation or carryover NFDRS parameters, you should recalculate any related NFDRS index:

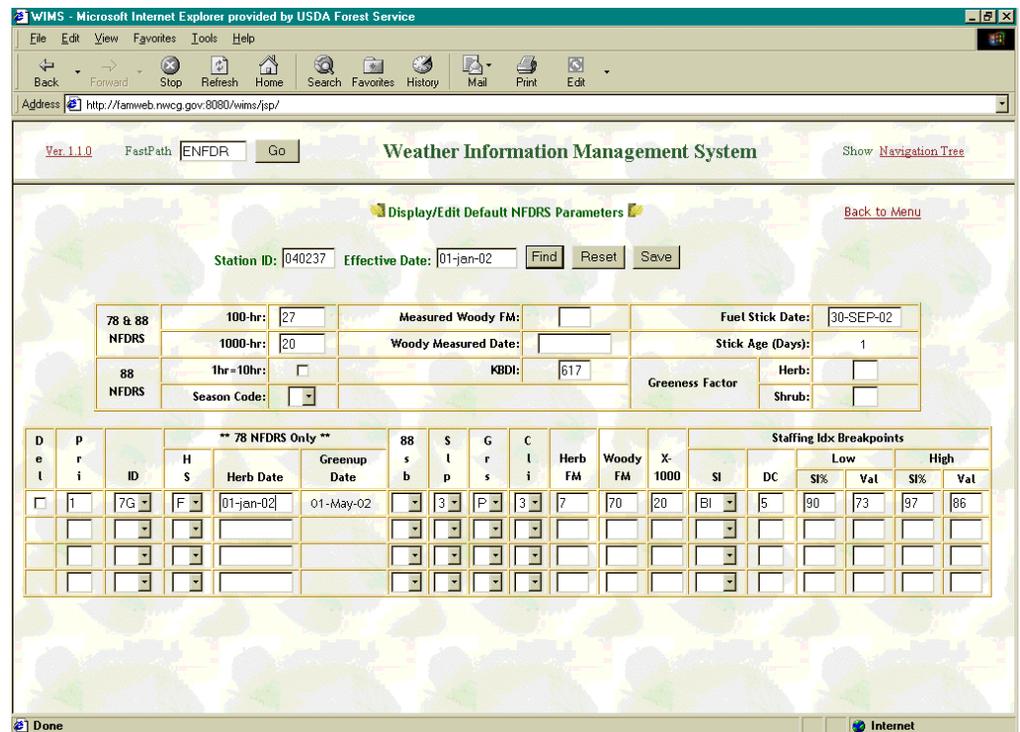
- For edits that you perform on today's observations, WIMS automatically recalculates the NFDRS indices when you submit the operation.
- For edits that you perform on either observations or NFDRS parameters for a previous date, you must tell WIMS to recalculate a range of NFDRS indices from the date they represented or were effective.
- Edits to NFDRS parameters automatically become effective the day they are performed.
- You can access the NFDRS menu by choosing **ENRR** from the FastPath menu.

Recalculate NFDRS indices whenever those values are in question. Usually, review at least 30 days of weather observations to determine if there are any trends of questionable NFDRS indices. Reviewing observations that are seven days old or less to determine this trend is generally not sufficient.

To recalculate NFDRS indices

- 1 The NFDRS Recalc process involves several steps. The ENFDR and ENRR forms are used, as well as the DIDX and/or DIDM forms for data verification. Recalcs are done to reset the NFDRS indices. In order for the recal process to work correctly the station needs to be frozen, recalced, greened, and recalced again. The steps are outlined below.
- 2 Using the FastPath ENFDR make the appropriate edits to the NFDR parameters , save and exit. Make sure the changes are made for the appropriate date. This date is the effective date for the changes to take place.

In this example the effective date is January 1, 2002. The Herbaceous State is set to “F” for frozen and the Herb Date is set to January 01, 2002. The changes are saved by clicking the Save button.



- 1 Using the FastPath ENRR to open the Recalculate NFDRS screen. Enter the NFDRS Recalculation Parameters on the Recalculate NFDRS form as shown below. When you have chosen the stations and dates for which you would like to recalculate NFDRS, click **Find**. The number of observations to be recalculated will be displayed along with the approximate time the process will take. Make sure the From Date is the same as the effective date used in the ENFDR screen and click the **Recalc** button to start the process.

The screenshot shows a web browser window titled "WIMS - Microsoft Internet Explorer provided by USDA Forest Service". The address bar shows "http://famweb.nwcg.gov:8080/wims/jsp/". The page content includes a navigation bar with "Ver 1.1.0", "FastPath ENRR", and a "Go" button. The main heading is "Weather Information Management System" with a "Show Navigation Tree" link. Below this is the "Recalculate NFDRS ENRR" section, which includes a "Back to Menu" link. The form is titled "Enter NFDRS Recalculation Parameters" and contains the following fields:

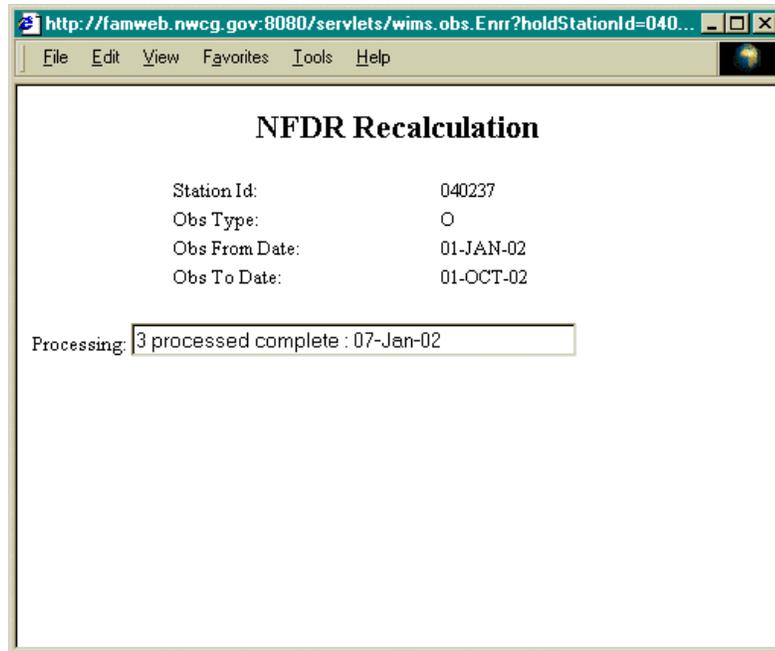
- Station ID: 040237 (with a "List" button next to it)
- Observation Date(s): From: 01-JAN-02, To: 01-OCT-02
- Type: 0 (with a dropdown arrow)

A "Find" button is located below the Type field. Below the form, a message states: "There are 203 observations to recalc. It will take about 5.92 Minutes. Continue with recalc?". A "Recalc" button is positioned at the bottom of this message. The browser's status bar at the bottom shows "Done" and "Internet".

*To see a list of the stations for which you can recalculate NFDRS click the **List** button. A popup window will display listing the stations for which you can recalculate NFDRS.*

The form will re-display with the time required to complete the operation.

- 2 To continue the operation click **Recalc**.



The NFDR Recalculation pop-up window displays showing the status of the recalculation and displays the number of records that have been processed. When the NFDR Recalculation is completed click the Close button to return to WIMS.

- After the Recalc process is complete it is a good idea to view the DIDM or DIDX form to verify the desired changes have taken effect. The station in this example was frozen. The following DIDM shows that the station is frozen. The Woody FM is set at the default for the climate class in the station catalog. The Herbaceous FM is equal to the 1HR FM.

WIMS - Microsoft Internet Explorer provided by USDA Forest Service

Ver 1.1.0 FastPath: DIDM Go Weather Information Management System Show Navigation Tree

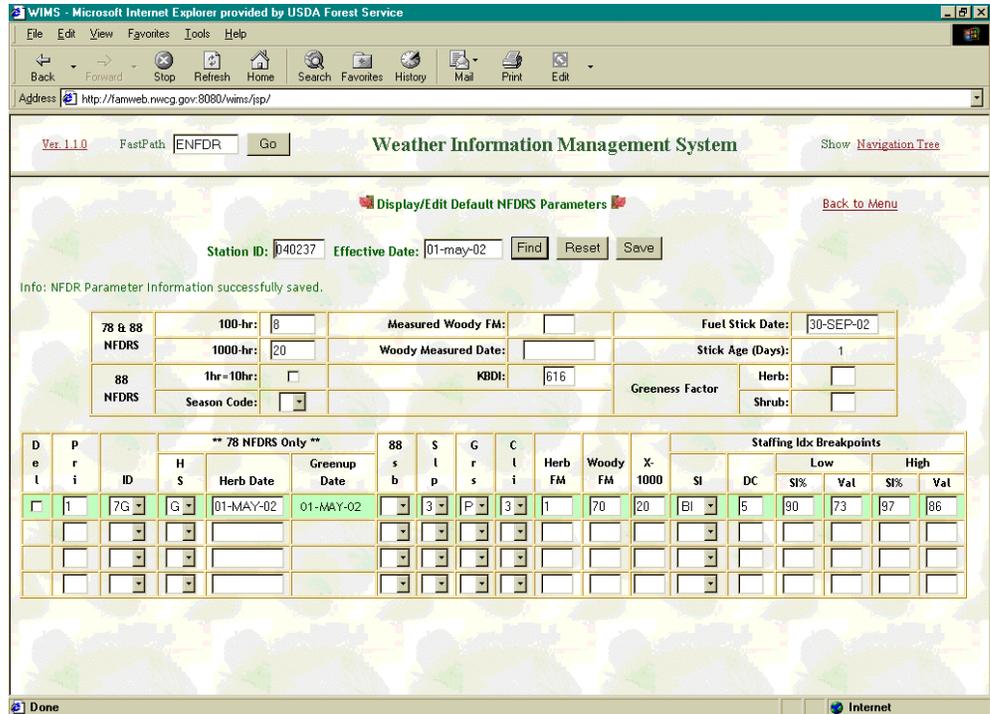
Display NFDR Moisture (Index) DIDM Back to MENU

Station ID: 040237 or SIG Type: 0 Date: 01-JAN-02 Find Reset PrintBase PrintAll Export

Station ID	Obs Date	O T	MSGC	WDY FM	Meas W FM	HRB FM	1H FM	10 FM	HJ FM	TH FM	XT FM	SN CD	Grn GR	Grn SH	KBDI	W F	IC	SC	EC	BI	FL	MC	LR	LO	HR	HO
40237	012702	0	7G3P3	70		1	1	2	9	17	17		0	0	617	N	52	9	47	49	35	3	0	0	0	0
40237	012902	0	7G3P3	70		1	1	3	13	18	18		0	0	617	N	87	30	39	77	55	4	0	0	0	0
40237	012402	0	7G3P3	70		7	7	35	20	19	19		0	0	617	Y	0	0	17	0	0	1	0	0	0	0
40237	012302	0	7G3P3	70		7	7	35	17	18	18		0	0	617	Y	0	0	21	0	0	1	0	0	0	0
40237	012002	0	7G3P3	70		1	1	3	13	17	17		0	0	617	N	94	30	42	80	57	4	0	0	0	0
40237	011802	0	7G3P3	70		7	7	35	19	18	18		0	0	617	Y	0	0	19	0	0	1	0	0	0	0
40237	011702	0	7G3P3	70		7	7	35	16	18	18		0	0	617	Y	0	0	22	0	0	1	0	0	0	0
40237	011602	0	7G3P3	70		7	7	35	11	17	17		0	0	617	Y	0	0	27	0	0	1	0	0	0	0
40237	011502	0	7G3P3	70		1	1	2	4	17	17		0	0	617	N	67	15	54	65	46	3	0	0	0	0
40237	011402	0	7G3P3	70		1	1	2	6	18	18		0	0	617	N	68	18	48	67	48	3	0	0	0	0
40237	011302	0	7G3P3	70		1	1	2	9	18	18		0	0	617	N	65	13	43	55	39	3	0	0	0	0
40237	011202	0	7G3P3	70		7	7	35	14	19	19		0	0	617	Y	0	0	21	0	0	1	0	0	0	0
40237	011102	0	7G3P3	70		1	1	2	8	19	19		0	0	617	N	92	28	43	79	56	4	0	0	0	0
40237	011002	0	7G3P3	70		5	5	6	11	20	20		0	0	617	N	27	10	34	44	31	3	0	0	0	0
40237	010902	0	7G3P3	70		1	1	3	15	20	20		0	0	617	N	55	11	32	45	32	3	0	0	0	0
40237	010802	0	7G3P3	70		7	7	35	22	22	22		0	0	617	Y	0	0	11	0	0	1	0	0	0	0
40237	010702	0	7G3P3	70		1	1	4	18	20	20		0	0	617	N	89	52	28	86	61	4	0	0	0	0
40237	010402	0	7G3P3	70		7	7	35	27	21	21		0	0	617	Y	0	0	9	0	0	1	0	0	0	0
40237	010302	0	7G3P3	70		7	7	35	27	20	20		0	0	617	Y	0	0	10	0	0	1	0	0	0	0

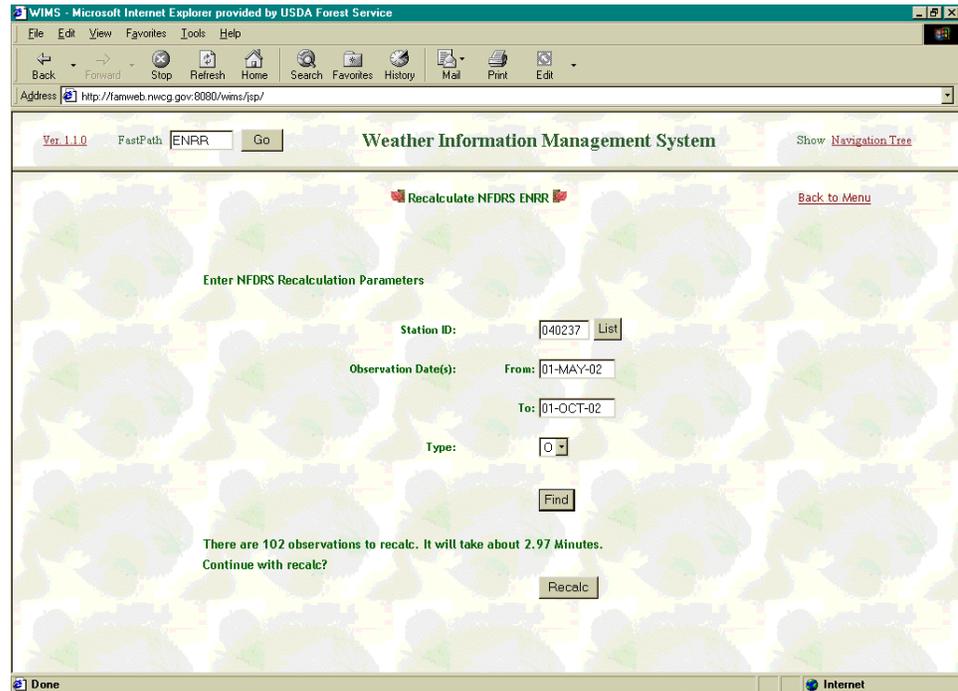
Total number of rows retrieved: 207

- The station now needs to be set to greenup. Using the FastPath ENFDR edit the NFDR parameters to make the needed changes.



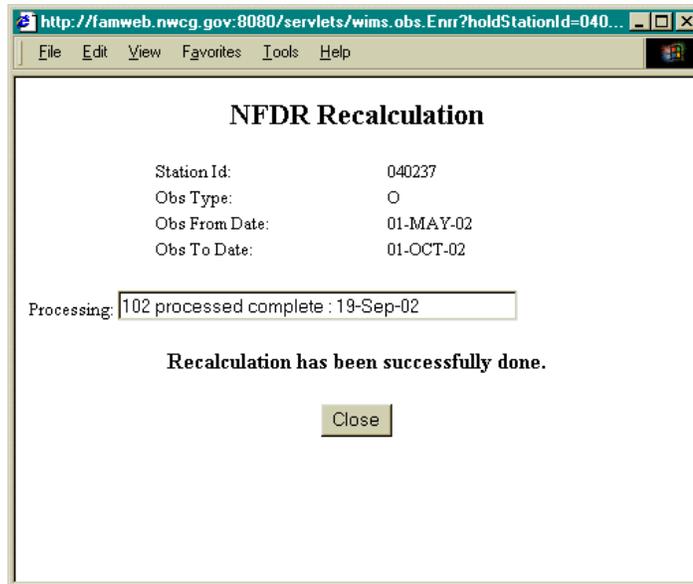
The effective date in this case is 01-May-02, the date the station was put into greenup. Enter the Herbaceous State of G for Greenup, and the Herb Date of 01-May-02 for the Greenup date. Click Save to keep the changes. Notice the highlighted line, showing the changes have been successfully saved.

- Using the FastPath ENRR open the Recalculation Screen again. Notice that the From Date is the same as the Effective Date.

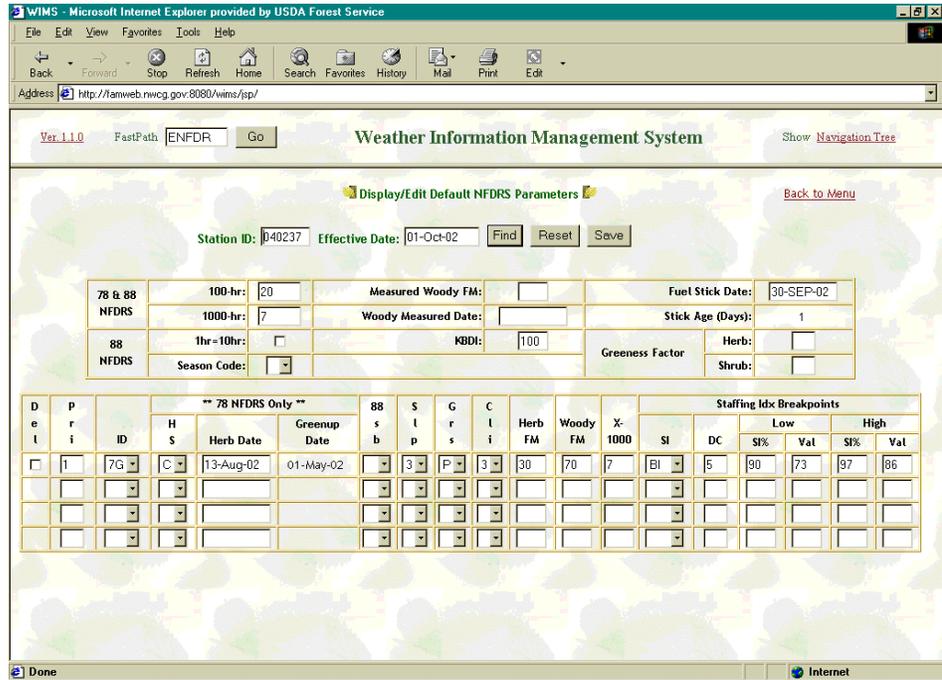


Click the **Recalc** button to start the recalculation process.

8. The NFDR Recalc window will open and show the progress.



- Verify the changes took by viewing the ENFDR screen. Notice that the Greenup Date show 01-May-02, but the Herbaceous State is a C cured and the Herb Date is 13-Aug-02.



- To further verify the successful recalculation of the station view the DIDM form. The greenup process should be apparent by viewing the Woody FM and the Herbaceous FM starting on 01-May-02, the greenup date.

Ver 1.1.0 FastPath DIDM Go Weather Information Management System Show Navigation Tree

Display NFDL Moisture (Index) DIDM Back to Menu

Station ID: 040237 or SIG Type: 0 Date: 01-MAY-02 Find Reset PrintBase PrintAll Export

Station ID	Obs Date	O T	MSGC	WDY FM	Meas WF FM	HRB FM	1H FM	1D FM	HU FM	TH FM	XT FM	SN CD	Grn GR	Grn SH	KBDI	W F	IC	SC	EC	BI	FL	MC	LR	LO	HR	HO
40237	052502	O	7G3P3	84		87	4	4	4	12	13		0	0	616	N	36	10	63	59	42	3	0	0	0	0
40237	052402	O	7G3P3	86		89	1	2	4	12	13		0	0	615	N	56	10	65	59	42	3	0	0	0	0
40237	052302	O	7G3P3	91		81	3	4	7	13	14		0	0	614	N	36	8	57	50	36	3	0	0	0	0
40237	052202	O	7G3P3	95		85	5	6	8	13	14		0	0	613	N	24	9	51	49	35	3	0	0	0	0
40237	052102	O	7G3P3	97		84	1	2	7	14	15		0	0	613	N	67	16	58	70	50	3	0	0	0	0
40237	052002	O	7G3P3	100		85	7	35	10	14	15		0	0	613	Y	0	0	33	0	0	1	0	0	0	0
40237	051602	O	7G3P3	87		63	3	3	3	13	15		0	0	613	N	39	9	62	55	39	3	0	0	0	0
40237	051402	O	7G3P3	85		56	3	3	2	13	15		0	0	612	N	37	8	63	54	38	3	0	0	0	0
40237	051302	O	7G3P3	85		53	4	4	1	13	15		0	0	612	N	35	13	63	65	46	3	0	0	0	0
40237	051202	O	7G3P3	86		52	1	2	0	14	15		0	0	611	N	66	13	67	68	48	3	0	0	0	0
40237	051102	O	7G3P3	89		55	1	2	1	15	16		0	0	610	N	62	12	62	62	44	3	0	0	0	0
40237	051002	O	7G3P3	92		54	1	2	2	16	17		0	0	610	N	60	12	56	59	42	3	0	0	0	0
40237	050902	O	7G3P3	92		51	1	2	4	17	18		0	0	610	N	83	21	51	75	53	4	0	0	0	0
40237	050802	O	7G3P3	90		47	3	3	6	17	18		0	0	609	N	39	9	47	49	35	3	0	0	0	0
40237	050702	O	7G3P3	88		42	3	4	7	18	18		0	0	609	N	36	10	44	50	36	3	0	0	0	0
40237	050602	O	7G3P3	86		38	4	5	8	18	18		0	0	609	N	42	19	41	63	45	3	0	0	0	0
40237	050502	O	7G3P3	83		29	1	2	8	19	19		0	0	609	N	94	27	44	78	55	4	0	0	0	0
40237	050202	O	7G3P3	74		14	6	7	12	20	20		0	0	608	N	25	13	30	47	33	3	0	0	0	0
40237	050102	O	7G3P3	70		14	14	35	15	22	21		0	0	608	Y	0	0	13	0	0	1	0	0	0	0

Total number of rows retrieved: 106